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Apropos [illegible]. Folia med. [illegible]
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prof. V.Dobrev [I.Dobrev]).

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(HALLUX, surgery,
valgus, Silver's operation (Pol))

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YUGOSLAVIA / General and Special Zoology. Insects. P
Systematics and Faunistics.

Abs Jour: Ref Zhur-Biol., No 12, 1958, 54247.

Author : Michieli, Stefan.
Inst : Croatian Nature Society.
Title : The Appearance of Southern Butterfly Species in Ljubljana and in the Adjacent Areas.

Orig Pub: Glasnik biol. sek. Hrvatsko prirodosl. drustvo, 1953 (1955), Ser. 2B, 7m 250-251.

Abstract: Since 1925, the appearance in Ljubljana of typical South European butterfly species has been noted. These species are new to this area and until then were encountered only in Istria and in Dalmatia. They are: Argynnis pandora, Lampides boeticus, Daphnis nerii, Leucania scirpi and a number of other species. The majority of these butterflies

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Color of Heteroptera. Bul sc Youg 7 no.3:61-62 Je '62.

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Seasonal change of colors in some species of Heteroptera. Biol vest no.10:33-44 '62.

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P. 2, (Constructorul. Vol. 9, no. 395, Aug. 1957, Bucuresti, Rumania)

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Calculating losses and depletions in the selective strip mining of complex nonferrous and rare metal ores. Izv. AN Kir. SSR. Ser. est. i tekh. nauk 3 no.3:25-45 '61. (MIRA 15:3)
(Mine examination) (Nonferrous metals)

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Translation from: Referativnyy zhurnal. Metallurgiya, [illegible] SOV [illegible] 5224

AUTHORS: Michkareva, V. I., Babushkin, N. M.

TITLE: Study of the Mineral Composition of Sintered Pellets of Pulverized Concentrates From the Kursk Magnetic Anomaly (Izucheniye mineral'nogo sostava obozhzhennykh okatyshey iz tonkoizmel'chennykh kontsentratov KMA)

PERIODICAL: Tr. n.-i. proyektn. in-ta Uralmekhanobr, 1958, Nr 2, pp 56-62

ABSTRACT: The concentrate consists mainly of magnetite (77.6%) and quartz (16.85%) with insignificant amounts of impurities. The concentrate is pulverized to 70% of 0.07-mm undersize. In the preparation of microsections the pellets were hardened with a solution of bakelite in acetone. Microsections of both fluxed and unfluxed pellets sintered in a Tammann furnace at 1150, 1200, and 1250°C and in the sintering pan were investigated. Microscopic examination of the microsections showed that there are three zones in the pellets. The outer, oxidized, hematite zone 1 - 1.5 m (sic!) deep, the transitional, partly oxidized zone 1.5 - 2 m deep, and the inner, unoxidized zone. The oxidized zone contains but little of the fused phase, whereas the zone of partial

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Study of the Mineral Composition of Sintered Pellets of Pulverized (cont.) SOV/37-59-5-5224

oxidation contains more of the liquid phase, and the strengthening of the pellets is attained through binding with slag. The oxidized zone of fluxed pellets consists of hematite, $\beta \cdot 2CaO \cdot SiO_2$ solid solution, hedenbergite, and Ca ferrites. All the lime enters into a chemical reaction with the concentrate.

A. P.

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MICHKAREVA, V.I., inzh.

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MICHKAREVA, V.I., inzh.; SPEKTOR, M.D., kand. tekhn. nauk; KAYZER, A.A., inzh.
PLAKHOTSKIY, I.A., inzh.; PUKHAREVA, L.A., inzh.

Porous unkilned fillers for lightweight concrete from pulverized ash of electric power plants. Stroi. mat. 10 no.11:34-35 N '64.
(MIRA 18:1)

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Investigating pressure valves of tractor engine fuel pumps. Trakt. i sel'khozmash. 30 no.7:5-9 Jl '60. (MIRA 13:10)

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(Tractors--Fuel systems) (Diesel engines)

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MICHKIN, I.A.; KALISH, G.G., doktor tekhn. nauk, prof., red.; KOVAL'SKAYA, I.F., tekhn. red.

[Vortex nozzles] Vikhrevye forsunki. Moskva, TSentr. in-t nauchno-tekhn. informatsii mashinostroeniia, 1961. 61 p. (MIRA 15:7)

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Characteristics of pin-type sprayers. Trakt. i sel'khozmash. 31 no.1:11-14 Ja '61. (MIRA 14:1)

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(Diesel engines)

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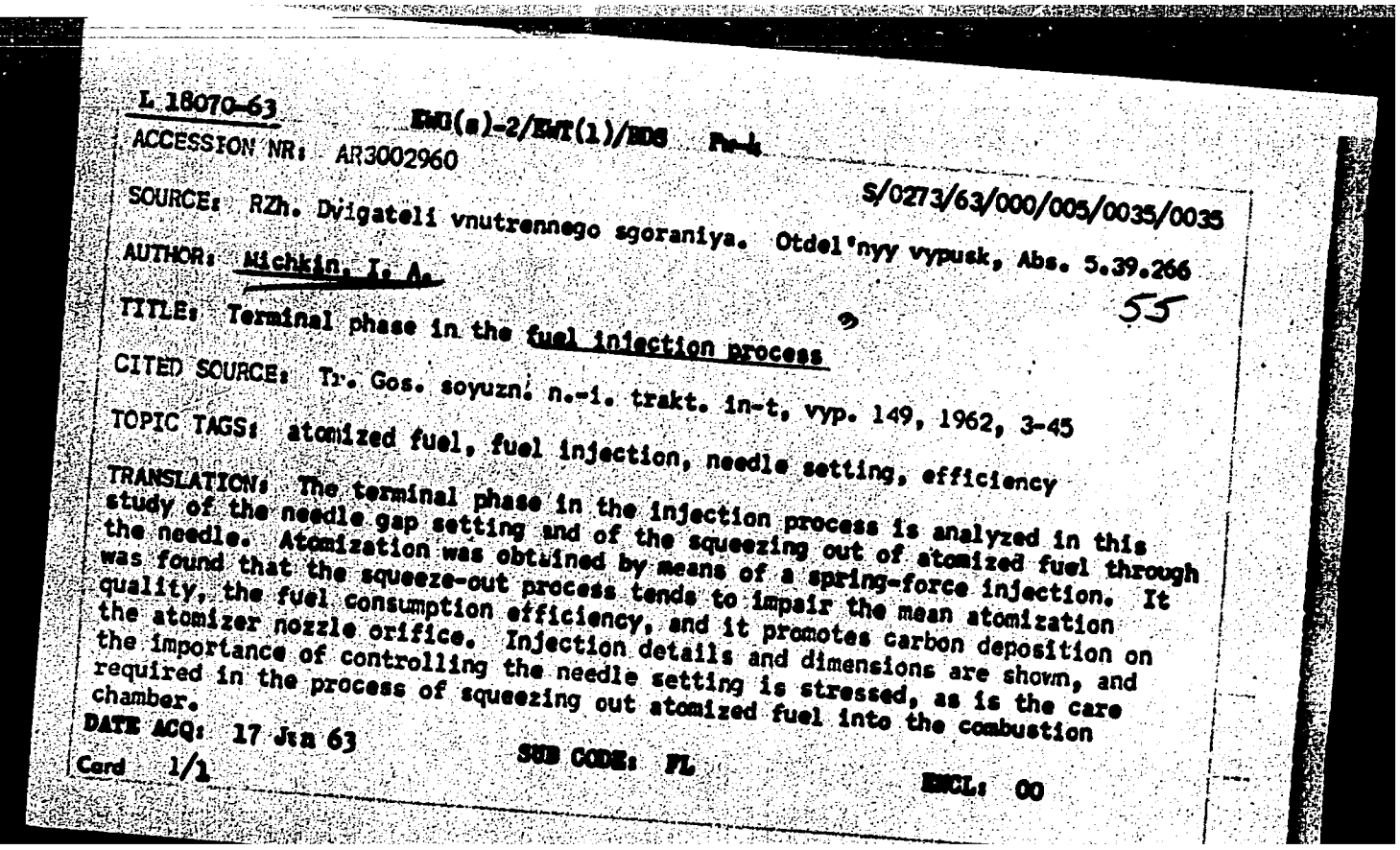

L 18070-63 EWI(a)-2/EWT(1)/EDS Pe-4

ACCESSION NR: AR3002960 S/0273/63/000/005/0035/0035

SOURCE: RZh. Dvigateli vnutrennego sgoraniya. Otdel'nyy vypusk, Abs. 5.39.266

AUTHOR: Michkin, I. A.

55

TITLE: Terminal phase in the fuel injection process

CITED SOURCE: Tr. Gos. soyuzn. n.-i. trakt. in-t, vyp. 149, 1962, 3-45

TOPIC TAGS: atomized fuel, fuel injection, needle setting, efficiency

TRANSLATION: The terminal phase in the injection process is analyzed in this study of the needle gap setting and of the squeezing out of atomized fuel through the needle. Atomization was obtained by means of a spring-force injection. It was found that the squeeze-out process tends to impair the mean atomization quality, the fuel consumption efficiency, and it promotes carbon deposition on the atomizer nozzle orifice. Injection details and dimensions are shown, and the importance of controlling the needle setting is stressed, as is the care required in the process of squeezing out atomized fuel into the combustion chamber.

DATE ACQ: 17 Jan 63 SUB CODE: PL ENCL: 00

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L 62511-65 EWI(d)/EWT(m)/EWP(f)/T-2/EWA(c)

ACCESSION NR: AP5018030

UR/0343/65/000/007/0012/0013
621.431.73.037.001.12

AUTHOR: Mikhkin, I. A. (Candidate of technical sciences)

28
B

TITLE: Designing nozzle apertures for multi-hole atomizers

SOURCE: Traktory i sel'khozmashiny, no. 7, 1965, 12-13

TOPIC TAGS: diesel fuel injection, fuel injector, fuel atomizer, injector nozzle/D 50N diesel engine, D 37M diesel engine

ABSTRACT: The location of nozzles in multi-hole atomizers for diesel engine fuel injection is considered. It has been found experimentally on diesel D-50N that nozzles located at greater angles from the atomizer axis showed more carbon deposits. The reason for this is demonstrated analytically for a two-hole injector (see Fig. 1 on the Enclosure) by calculating the flow rates Q_1 and Q_2 through the two nozzles based on the Bernouilli and continuity equations and on nozzle cross-sectional areas. These are given as $Q_1 = Q_0 \frac{1-\sqrt{1-kc}}{k}$; and $Q_2 = Q_0\left(1-\frac{1-\sqrt{1-kc}}{k}\right)$,

$k = 1-\frac{f_2^2}{f_1^2}\cdot\frac{1+\zeta_1}{1+\zeta_2}$; $c = 1+\frac{f_2^2}{f_a^2}\cdot\frac{\cos^2\alpha-\cos^2\beta}{1+\zeta_2}$;

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where $\zeta_i = 1 - \frac{\lambda l g \Delta P}{5000 Q_i^2 \gamma}$ represents the resistances of the two orifices. For a realistic case ($d = 0.317$ mm; $\alpha = 81°ff'$; $\beta = 48°44'$; $d_a = 1.2$ mm; $\varepsilon_1 = 1.02$; $\varepsilon_2 = 0.428$; fuel pressure 20 kg/cm^2) the flow is 15.8% smaller for the α nozzle. To obtain better fuel injection the holes should either be made of different diameters (as in diesel D-37M) or, preferably, the streams should be directed to give the correct fuel spray distribution as shown for the D-50N diesel in Fig. 2 on the Enclosure. Orig. art. has: 3 figures and 3 formulas.

ASSOCIATION: NATI

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OTHER: 000

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Card 2/4

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ACCESSION NR: AP5018030

ENCLOSURE: 01

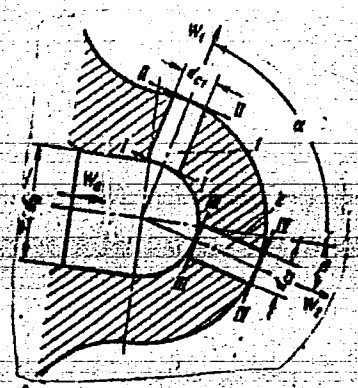

Fig. 1. Atomizer configuration

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ACCESSION NR: AP5018030

ENCLOSURE: 02

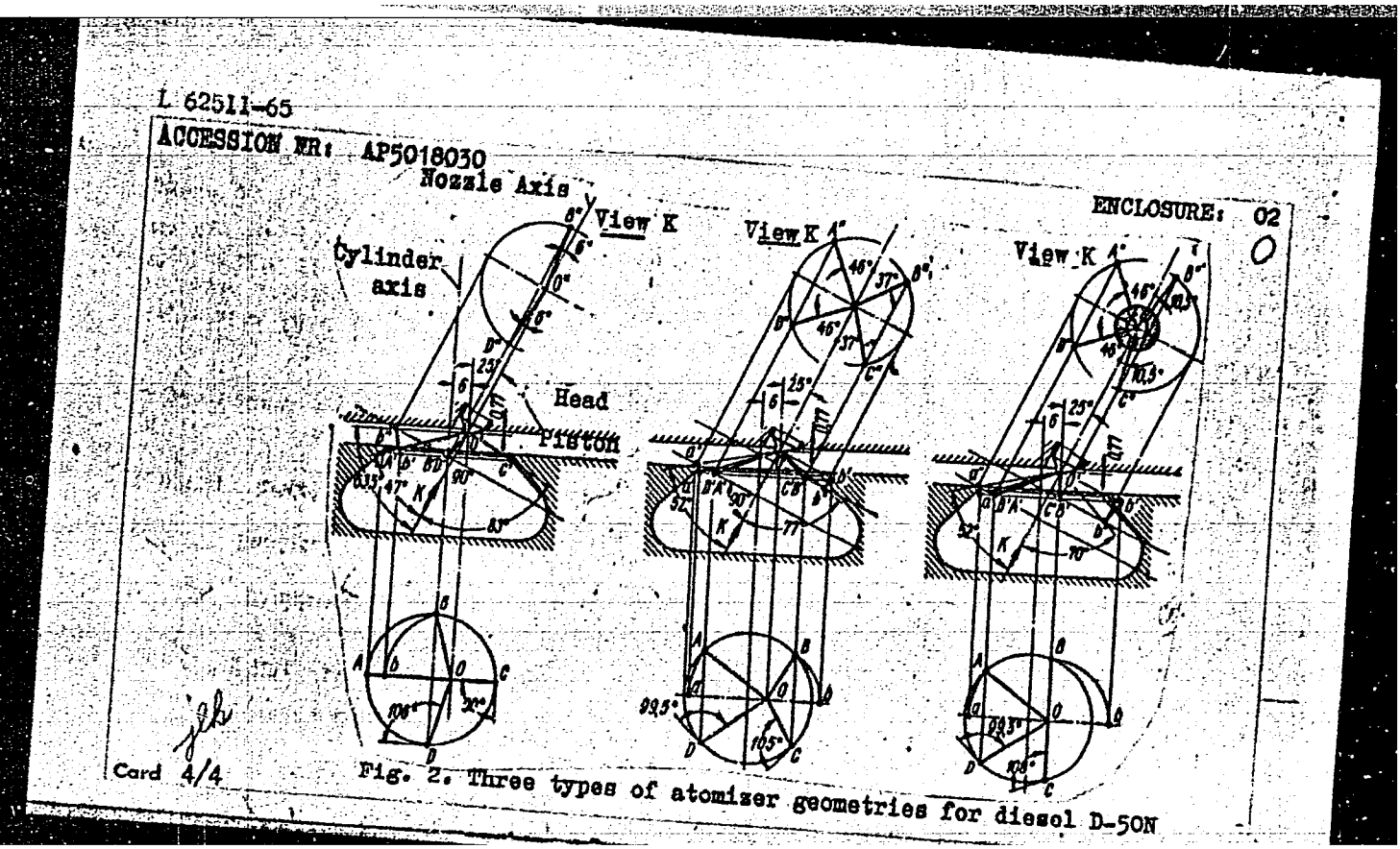

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Fig. 2. Three types of atomizer geometries for diesel D-50N

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHKIN, I.A., inzh., KOLTIKOV, M.K., inzh.

Increasing the reliability of the work of fuel injectors. Trakt. i sel'khozmash. no.5:10-12 My '64. (MIRA 17:6)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy institut.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

LAZAR, M.; PAVLINETS, I.; MANYASEK, Z.; MICHKO, M.; BEREK, D.

Ozonization of atactic polypropylene. Vysokom.soed. 3 no.6:943-947 Je '61. (MIRA 14:6)

1. Khimicheskiye instituty Slovatskoy Akademii nauk, Bratislava.
(Propene) (Ozone)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MANYASEK, Z.; BEREK, D.; MICHKO, M.; LAZAR, M.; PAVLINETS, Yu.

Formation and decomposition of hydroperoxides of atactic propylene. Vysokom.soed. 3 no.7:1104-1109 Jl '61. (MIRA 14:6)

1. Khimicheskiye instituty Slovatskoy akademii nauk, Bratislava.
(Propene) (Peroxides)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MANYASEK, Z.[Manasek, Z.]; MICHKO, M.[Micko, M.]; PAVLINETS, Y. [Pavlinec, J.]; LAZAR, M.

Modification of polypropylene fibers by the grafting of acrylonitrile. Khim. volok. no.3:20-24 '63. (MIRA 16:7)

1. Institut drevesiny, tsellyulozy i khimicheskikh volokon Slovatskoy Akademii nauk, Bratislava, Chekhoslovatskaya Sotsialisticheskaya Respublika.
(Textile fibers, Synthetic)
(Polypropylene) (Acrylonitrile)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

STOYLOV, B. A., KOSTNOV, S. D., BOGOSLOVSKIY, I. S., MORGUNOV, G. M., ROGALEV, Y. S., MICHKOV, V. A., SEDOROV, I. M., ZUBRILOV, L. YE., KAPUSTIN, N. G., DOVLA, A. S.

Shevy, Lev Dmitriyevich, 1889-

Concerning the review by Prof. D. A. Strel'nikov, Docents B. S. Lokshin, Ya. Ye. Nekrasovskiy and Eng. V. A. Florov on Acad. L. D. Shevyakov's book "Fundamental theory of planning coal mines." Ugletkhizdat, 1950(Ugol' No. 3, 1952) Ugol' 27 No. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 1953, Uncl.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHKOV, V. A.

191T72

USSR/Hydrology - Piling Foundations Oct 51

"Pile-Tubing Foundation on Rocky Material," V. A. Michkov, Engr

"Gidrotekh i Meliorat" Vol III, No 10, pp 66, 67

Michkov designed a pile-tubing foundation for Berdsk hydraulic station in Novosibirsk Oblast. This installation was achieved with piling pipes 3 times faster and 75% less expensive than with conventional construction and has operated satisfactorily for 15 years. It proves that this design may be applied to the construction of hydraulic and hydroelec installations, and bridges.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

POLYUKOV, V.A., inzh.; MICHKOV, V.A., dotsent

Overall mechanization of the mining of rock salt. Izv. vys. ucheb. zav.; gor. zhur. 7 no.5:3-7 '64. (MIRA 17:12)

1. Sverdlovskiy gornyy institut imeni V.V. Vakhrusheva. Rekomendovana kafedroy razrabotki plastovykh mestorozhdeniy.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHKOV, V.A., dotsent

New layouts of shaft bottoms for large-tonnage coal mines. Izv. vys. ucheb. zav.; gor. zhur. 5 no.10:39-44 '62. (MIRA 15:11)

1. Sverdlovskiy gornyy institut imeni V.V.Vakhrusheva. Rekomendovana kafedroy razrabotki plastovykh mestorozhdeniy Sverdlovskogo gornogo instituta.

(Coal mines and mining)

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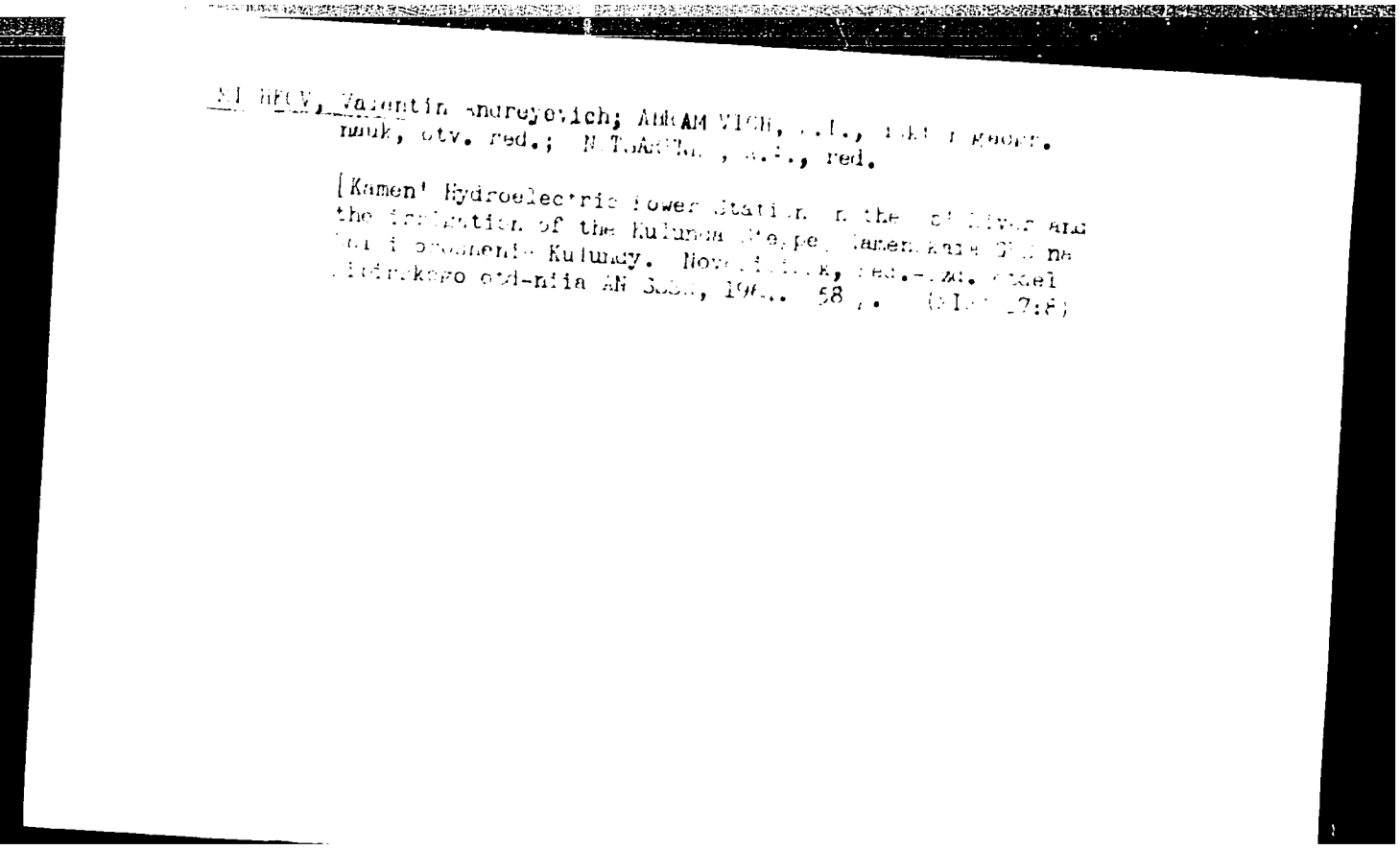

NEKRASOV, Valentin Andreyevich; ANDRIANOVICH, V.I., kand. ekon. nauk, otv. red.; [illegible], red.

[Kamen' Hydroelectric Power Station on the [illegible] River and the formation of the Kulundy Steppe. Kamen' GES na [illegible] i obrazovanie Kulundy. Novosibirsk, Red.-izd. otdel Sibirskogo otd-niia AN SSSR, 196[illegible]. 58 p. (MIRA 17:8)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

V. V. MICHKOVITCH

"A Method of Determining the Instants of Contacts in Eclipses," p. 193. (BULLETIN, SCIENCE. MATEMATIQUES. Vol. 5, No. 1, 1952 Beograd, Yugoslavia)

SO: Monthly Lists of East European Accessions, L.C., Vol. 7, No. 11 Nov. 1958, Uncl.

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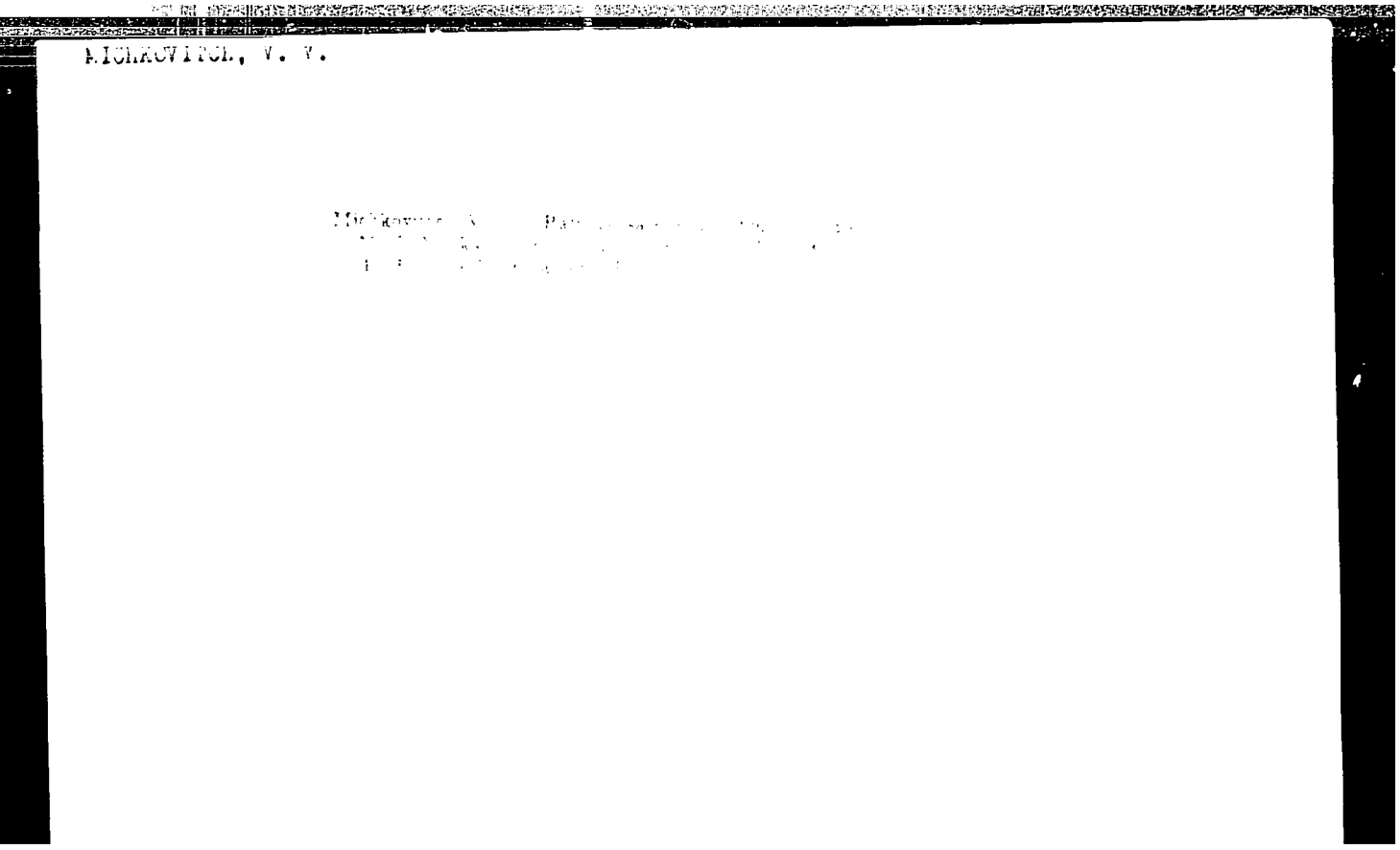

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L 62512-65 EPA/EWI(l)/EWI(m)/EWP(w)/EWP(f)/EWG(v)/EWP(v)/T-2/EWP(k)/ETC(m)
WW/EM

ACCESSION NR: AP5018874 UR/0096/65/000/008/0059/0063
621.51:533.6.001.24

AUTHORS: Ishutinov, D. V. (Engineer); Michkovskiy, B. A. (Engineer)

TITLE: Gas dynamic calculation and profiling of impellers in centrifugal compressors

SOURCE: Teploenergetika, 12 no. 8, 1965, 59-63

TOPIC TAGS: gas dynamics, centrifugal compressor, blade 26 profile, gas flow, flow parameter, turbine design/ TKR 14 compressor

ABSTRACT: An analytic investigation was made of the profiling details of centrifugal compressor impellers. The calculation method consists of the following steps: the shape of the mean streamline is calculated so as to divide the flow into two equal parts. Along this line are distributed all the flow parameters in such a manner that the absolute acceleration vector undergoes a minimum possible change in magnitude as well as in direction. On the basis of equations of motion and conservation of mass, the shape is determined of a neighboring streamline which is situated at the nearest elementary distance Δn. The flow parameters are calculated along this streamline and the impeller contour is subsequently

Card 1/4

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determined. The stream-tube surface is defined geometrically in Fig. 1 on the Enclosure, and the governing equations for the profile calculation are obtained in the forms

$$\lambda = \lambda_0 \exp \int_0^n \frac{\partial n}{R}.$$

where $\lambda = c/a^*$,

$$\mu \Delta F = \frac{a^*}{0.74 p^* q \sin \alpha} \Delta G$$

from mass conservation, and

$$\frac{T^*}{T^*_1} = \frac{1 - [(k-1) v M_\tau \cos \alpha]_1}{1 - (k-1) v M_\tau \cos \alpha},$$

$$v = u/a, \quad M = \frac{c}{a}.$$

$$\frac{\rho^*}{\rho^*_1} = \left(\frac{T^*}{T^*_1}\right)^{\frac{n}{n-1}}.$$

A typical compressor TKR-14 is selected, and by using the above formulae, the flow parameter distributions are calculated along the mean streamline. The blade profiles are then calculated from the angle distribution

$$\Delta\beta(m, n) = \beta_r + \beta$$

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

where β_Γ is the geometrical angle of the blade. Expressions are then derived to characterize the compressor,

$$\pi, \eta\left(\frac{u_1}{a^*_1}; \frac{G_2}{G\,max}\right)_\Gamma$$

where π is the degree of rise in the total pressure and G_{max} is the maximum possible flow rate through section 1. Orig. art. has: 20 formulas and 6 figures.

ASSOCIATION: Ural'skiy turbomotornyy zavod (Ural Turbine Factory) 44,55

SUBMITTED: 00 ENCL: 01 SUB CODE: PR, ME

NO REF SOV: 006 OTHER: 001

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

L 62512-65
ACCESSION NR: AP5018874

ENCLOSURE: 01

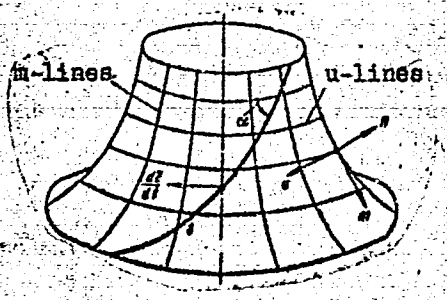

Fig. 1

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L 47078-66 EWT(1)/EWP(e)/T-2 WW SOURCE CODE: UR/0413/66/000/014/0060/0060

ACC NR: AP6029044

INVENTOR: Ishutinov, D. V.; Michkovskiy, B. A.

ORG: none

TITLE: Centrifugal compressor rotor. Class 27, No. 183877 [announced by the Uralsk Turbomotor Plant (Ural'skiy turbomotornyy zavod)]

SOURCE: Izobret prom obraz tov zn, no. 14, 1966, 60

TOPIC TAGS: centrifugal compressor, compressor rotor, rotor blade, compressor design

ABSTRACT: The proposed centrifugal compressor rotor contains radial blades and an axial inlet guide vanes. In order to improve the aerodynamic charac-

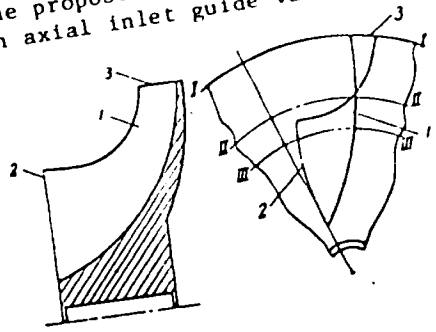

Fig. 1. Compressor rotor

1 - Blade; 2 - leading edge of the blade; 3 - trailing edge of the blade; I-I, III-III - meridional cylindric cross section of the rotor.

UDC: 621.515.1-253.51

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L 42028-66
ACC NR: AP6029044

teristics of the compressor, the rotor blades are made with leading and trailing edges of the blades curved to the side, in direction opposite to the rotor rotation. The profiles in meridional cylindrical cross sections are made in conformance to the arc of the circumference (see Fig. 1). Orig. art. has: 1 figure. [AV]

SUB CODE: 21/ SUBM DATE: 15May64/ ATD PRESS:

Card 2/2 mt

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

VERIGIN, P.; KOLIBABCHUK, A., nauchnyy sotrudnik.; MICHKOVSKIY, L.

Experience of combined units in transporting sugar beets. Avt. transp. 36 no. 7:10-11 Jl '58. (MIRA 11:8)

1. Upravlyayushchiy Vinnitskim oblavtotrestom (for Verigin).
2. Nauchno-issledovatel'skiy institut, Ukrdortrans (for Kolibabchuk).
3. Komandir Kalinovskoy avtoroty (for Michkovskiy).
(Sugar beets--Harvesting)
(Transportation, Automotive)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, Jaroslav; KOZEHUBA, Zdenek

Some influences on shoemaking with prepared soles. Kozarstvi 13 no.8:247-250 Ag '63.

1. Vyzkumny ustav kozedelny, Gottwaldov.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, Jiri; SPISEK, Lubomir

A new graphic chart of railway transportation. Zel dop tech 10 no.4:99-100 '62.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, Jiri

Prospective solution of suburban railroad transportation. Zel dop tech 12 no.6:147-148 '64.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

SLONIM, Dimitrij; MICHL, Jiri; MARES, Ivo; CINDEROVA, Olga; DUSEVO, Milan

Certain experiences with the preparation of inactivated poliomyelitis vaccine in Czechoslovakia. I. Glass, rubber, stainless material. Cesk. epidem. mikrob. imun. 8 no.5:289-298 Sept 59.

1. Ustav ser a ockovacich latek v Praze.
(POLIOMYELITIS, immunol.) (VACCINES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, J.

A protein growth factor for HeLa cells. Neoplasma,Bratisl. 7 no.1 suppl:75-78 '60.

(PROTEINS)
(TISSUE CULTURE)
(NEOPLASMS)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

SLONIM, Dimitrij; MICHL, Jiri; CINNEROVA, Olga; MARES, Ivo; DREVO, Milan; za spoluprace: STEPANOVE, E.; HAJKOVE, H.; JARKOVE, A.

Certain experiences with the preparation of the inactivated poliomyelitis vaccine in CSR. II. Preparation of the medium. Cesk. epidem.mikrob.imun. 9 no.2:111-121 Mr '60.
(POLIOMYELITIS immunol.)
(VACCINES)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

SLONIM, D.; MARES, I.; DREVO, M.; CINNEROVA, O.; MICHL, J.; technical assistance: HOLATOVA, M.; KOUDELKOVA, M.; KRAUSOVA, V.; SKUBAL, J.; ZLABOVA, Z.

Some experiences with the preparation of inactivated poliomyelitis vaccine in Czechoslovakia. IV. The preparation of the vaccine. Acta virol. Engl. Ed. Praha 5 no. 3:178-187 My '61.

1. Institute of Sera and Vaccines, Prague.

(POLIOMYELITIS immunol)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MACEK, Milan; MICHL, Jiri; HOS[illegible] Lid[illegible] [illegible]CEROVA [illegible] BRDICKA. Radim; CERNY, Milos. Te[illegible]. [illegible]uprace:HAJKOVA,H.; [illegible],

Shereshevskii - Turner syndrome in the light of new clinical and cytological data. Acta Univ. Carol. [med.] (Praha) 10 no.1:87-105 '64

1. Ustav vyzkumu vyvoje ditete fakulty, detskeho lekarst[illegible] - versity Karlovy v Praze (reditel: prof. MUDr. J. Houstek, [illegible] Sc); Ustav ser a ockovacich latek (reditel: MUDr. J.Johanovsky, CSc.); II. detska klinika fakulty detskeho lekarstvi University Karlovy v Praze (prednosta: prof. MUDr. J. Houstek, Dr Sc) a Ustav obecne biologie fakulty vseobecneho lekarstvi University Karlovy v Praze (reditel: prof. MUDr. B.Sekla, Dr Sc).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MACEK, Milan; M[illegible], Jiří

Contribution to cultivation of human diploid cells. Acta Univ. Carol. [Med.] (Praha) [illegible]

1. Ustav [illegible] vyzkumu vyv[illegible] detske fakulty detskeho lekarstvi, University Karlovy v Praze (ředitel prof. MUDr. J.Housek, DrSc.) a Ustav serologie a [illegible]ovych latek, odbor [illegible] kultur (vedouci MUDr.J.Johanovsky, CSc.).

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

ZAHRADNIK, R.; MICHL, J.; KOUTECKY, J.

Tables of quantum chemical data. pt.2. Coll Cz chem 29 no.8: 1932-1944 Ag '64.

1. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague.

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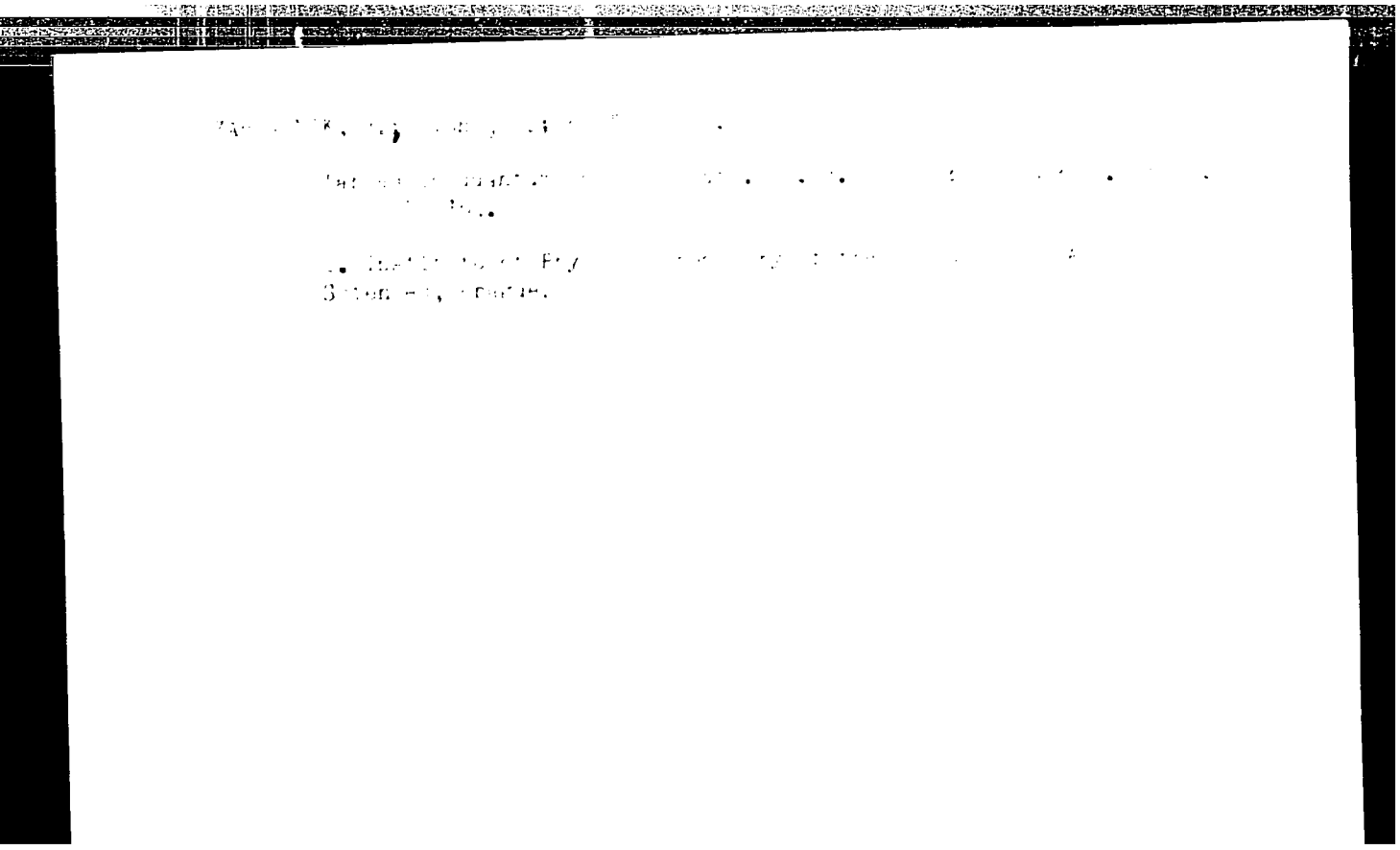

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, J.; REMACOVA, D.

Some characteristics of mouse ascitic Krebs-2 tumour cells grown in submerged cultures. Neoplasma (Bratisl.) 12 :0.4:439-445 '65.

1. Tissue Culture Department, Institute of Sera and Vaccines, Prague, Czechoslavakia. Submitted September 19, 1964.

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, J.

Nutrition of neoplastic and normal cells in tissue culture.
Neoplasma (Bratisl.) 12 no.4:447-452 '65.

1. Laboratory of Tissue Culture, Institute of Physiology, Czechoslovak Academy of Sciences, Prague, Czechoslovakia.
Submitted January 16, 1965.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

ZAHRADNIK, R.; MICHL, J.

Electronic structure of non alternant hydrocarbons, their analogues and derivatives, introductory remarks. Coll Cz Chem 30 no.2:515-536 F '65.

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague Submitted September 4, 1964 and June 18, 1964.

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

[redacted]

[redacted], K; [redacted], J; [redacted]

1. Institute of Physical Chemistry of the Czechoslovak Academy of Sciences, Prague; 2. Institute of Organic Chemistry of the Institute of Technology, Munich

Prague, Collection of Czechoslovak Chemical Communications, No 10, 1965, pp 3227-3232

"Electronic Structure of Non-Alternant Hydrocarbons, Their Analogues and Derivatives. IV. An HMO Study of Amino Derivatives of Fulvenes and Vinylogous Fulvenes."

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MICHL, V.

National Enterprises of the Ministry of Food compete for the Red Banners of the Government, of the Ministry of Food, and of the Central Committee of the Employees of the Food Industry of the Revolutionary Trade Union Movement. p.57

PRUMYSL POTRAVIN. (Ministerstvo potravinarskeho prumyslu) Praha

Vol. 6 no. 2, 1955

East European accessions List Vol. 5 No. 1 Jan. 1956

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2"

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

MARES, Emil, inz.; MICHL, Premysl, PhMr.

Preparation of synthetic fat for pharmaceutical purposes. Prum potravin 14 no.11:603-606 N'63.

1. Vyzkumny ustav tukoveho prumyslu, Usti nad Labem (for Mares). 2. Leciva, n.p., Dolni Mecholupy (for Michl).

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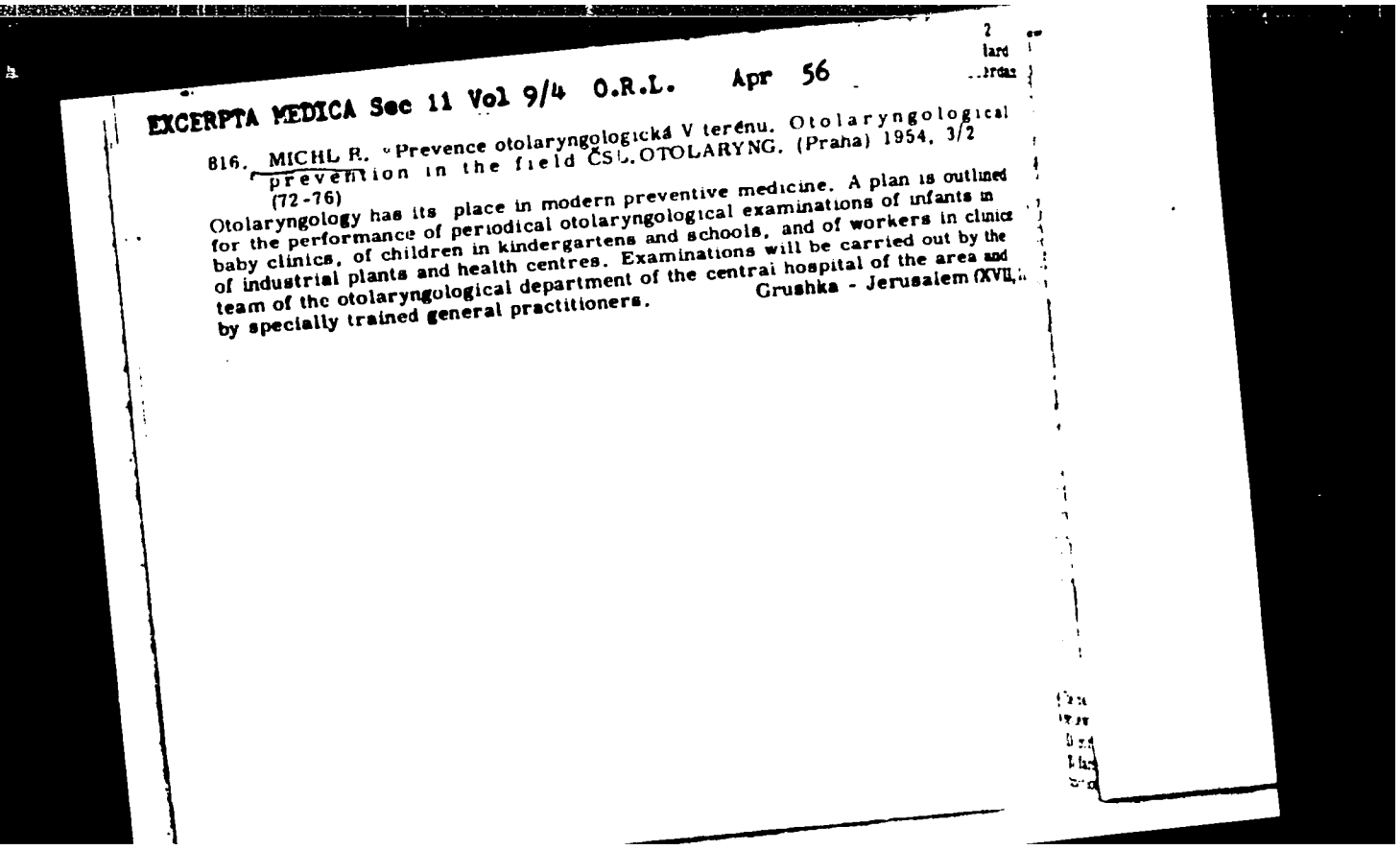
"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2



EXCERPTA MEDICA Sec 11 Vol 9/4 O.R.L. Apr 56

816. MICHL R. "Prevence otolaryngologická V terénu. Otolaryngological prevention in the field ČSL. OTOLARYNG. (Praha) 1954, 3/2 (72-76)

Otolaryngology has its place in modern preventive medicine. A plan is outlined for the performance of periodical otolaryngological examinations of infants in baby clinics, of children in kindergartens and schools, and of workers in clinics of industrial plants and health centres. Examinations will be carried out by the team of the otolaryngological department of the central hospital of the area and by specially trained general practitioners. Grushka - Jerusalem (XVII,

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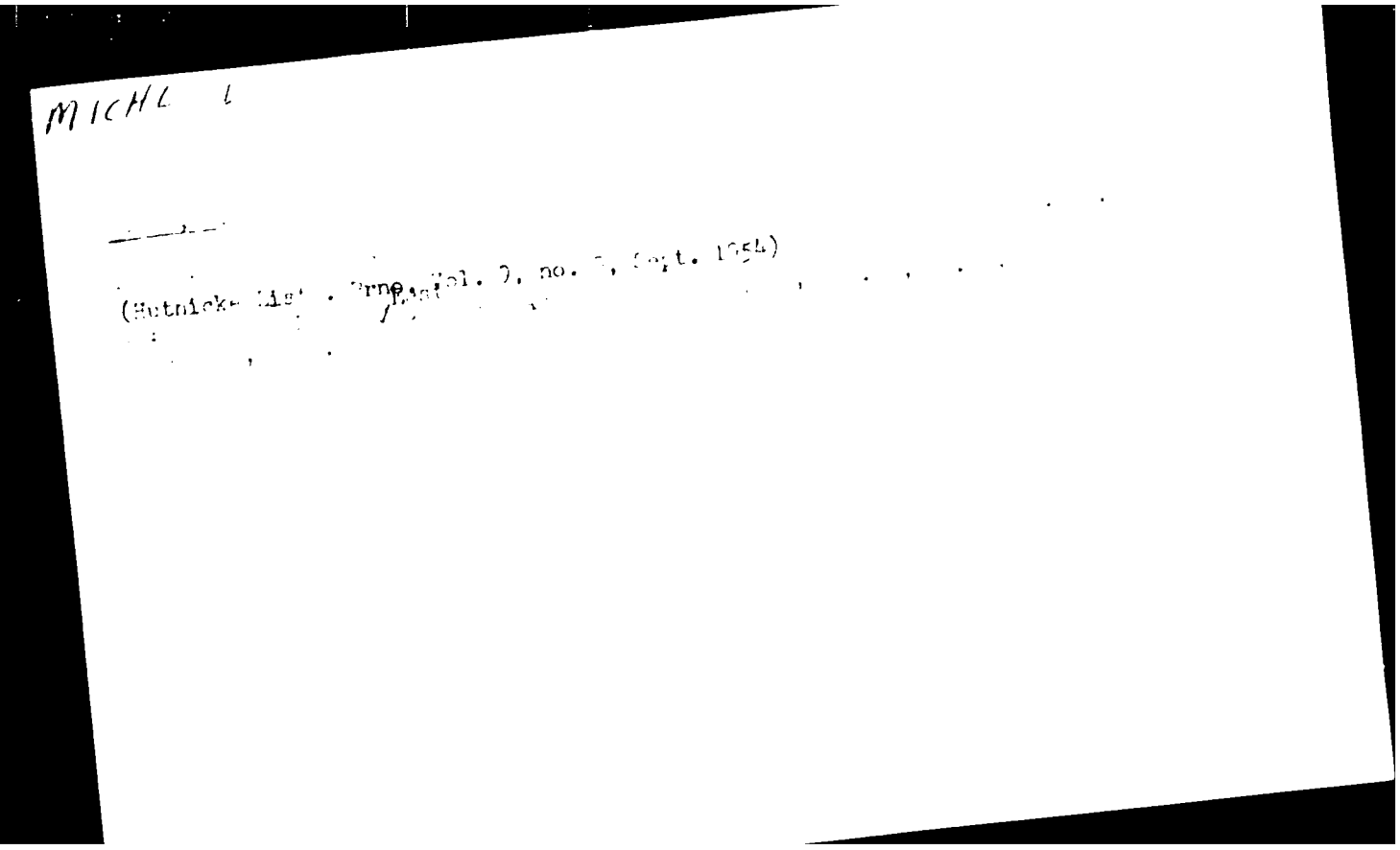

(Hutnick- Lig . . . Journal.), no. , Sept. 1954)

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"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001033820002-2

Z/057/63/000/002/001/001
E073/E335

AUTHORS: Romaniak, Ladislav, Engineer and Michl, Vladimír

TITLE: Brittleness and coarseness of grain of nickel semi-finished products for the electronic industry

PERIODICAL: Hutník, no. 2, 1963, 73 - 81

TEXT: In 1958, a relatively high percentage of semi-finished products had to be scrapped due to brittleness or grain-coarseness. The situation improved by 1960. Brittle strips can be made ductile by heating for 15 - 20 min at 900 °C, followed by sudden water-quenching. Such treatment does not eliminate fully the inter-crystalline phase or the grain-coarseness in thin Ni strip. It is considerably more difficult to eliminate grain-coarseness than to eliminate brittleness, particularly since grain-coarseness appears predominantly during forming the final thickness of 0.1 to 0.2 mm. Grain-coarseness is due not only to the intercrystalline phase but also to unfavourable rates of reduction or annealing conditions. The influence of the following was investigated on material produced from 12 heats (with 240 kg charges) in an open, high-frequency furnace with an acidic lining from pure raw materials:

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Brittleness and coarseness ....

duration of annealing prior to hot-forming (16 and 17 hours, respectively, without a protective atmosphere, at 1150 to 1200 °C); normal and high reduction rates during cold rolling; pickling and use of inhibitors during pickling. Deoxidation was by 0.05 kg Mn, 0.1 kg Si, 0.20 kg Al, 0.05 kg C and 0.1 kg Mg. 310 mm diameter cylinders were cast from each heat, the skin removed and the cylinders heated in a resistance furnace (for durations and temperatures as mentioned above). After heating the solutions were hot-rolled to a thickness of 6 mm and then cold-rolled with current and increased rates of reduction. Bright annealing was carried out in a Grünewald-type furnace at 720 °C for 4.5 hours. Pickling was effected in a 3:1:10 solution of HNO_3 + HCl + H_2O at 60 °C until the surface was completely clean. In one case, 0.5 wt.% of $CuCl_2$ was added as an inhibitor. The hydrogen content of 2.5 mm thick strip did not change as a result of pickling, which indicated that the pickling duration and use of an inhibitor had no influence on grain-coarseness. Main attention should be paid to the deoxidation and casting to prevent formation of an intercrystalline phase. During hot-forming Ni + NiO eutectic concentrates and stabilizes the grain boundaries; heats that were not satisfactorily

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Brittleness and coarseness ....

deoxidized or were overheated to 1550 °C retained a certain quantity of oxygen, which lowered the quality of the semi-finished products, particularly the cold-forming ability, to an extent that failures will occur. Much care has to be taken during intermediate annealing in an oxidizing atmosphere since extensive oxidation and intercrystalline penetration of oxygen will have a detrimental effect. Extensive use of vacuum-smelting and casting is recommended. There are 12 figures and 4 tables.

ASSOCIATION: Kovohutě G. Klimenta, Rokycany
(G. Klimenta Metal Works, Rokycany)

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L 34430-66 T/EWP(t)/ETI IJP(c) JD

ACC NR: AP6026198 SOURCE CODE: CZ/0034/65/000/011/0789/0795

AUTHOR: Dedek, Vladimir (Engineer); Michl, Vladimir--Mikhl', V. (Engineer); Sliva, Milan (Engineer)

ORG: VZKG, n.p., Ostrava

TITLE: Reheating conditions of process and intermediate annealing and their effect on the deep-drawing properties of low-carbon strip steels

SOURCE: Hutnicke listy, no. 11, 1965, 789-795

TOPIC TAGS: low carbon steel, annealing, cold rolling, metal drawing

ABSTRACT: The article reports on an investigation of cold rolled annealed deep-drawing strip steels regarding the feasibility of improving their structural and plastic properties by arrangement of the reheating conditions in the final process annealing as well as by intermediate annealing during the cold rolling. Orig. art. has: 2 figures and 8 tables. [Based on authors' Eng. abstract] [JPRS: 33,732]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 003 / OTH REF: 001

UDC: 621.785.3:669.14.018.26

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Rak Channel of the Planina Cave. p. 73; Slovenska akademija znanosti in umetnosti. Institut za raziskovanje krasa. POROCILA. ACTA CARSOLOGICA. Ljubljana; Vol. 1, 1955.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 5, No. 12, December 1956.

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Some notes on the necessity of standardizing hydrophores. Normalizacja 29 no.9:413-415 '61.

(Pressure vessels)

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Study of keratin immunization. Pt. 1. Kozarstvi 14 no. 5: 130-134 My '64.

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A study of keratin immunization. Pt.[illegible] Kozarstvi [illegible]
333-336 N '64.

1. Chair of Leather Chemical Technology of the [illegible]
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Polarographic determination of methionine in wool and hair keratins. Kozarstvi 15 no.2:59-63 F '65.

1. Chair of Leather Chemical Technology of the Chemical Faculty of the Slovak Higher School of Technology, Bratislava.

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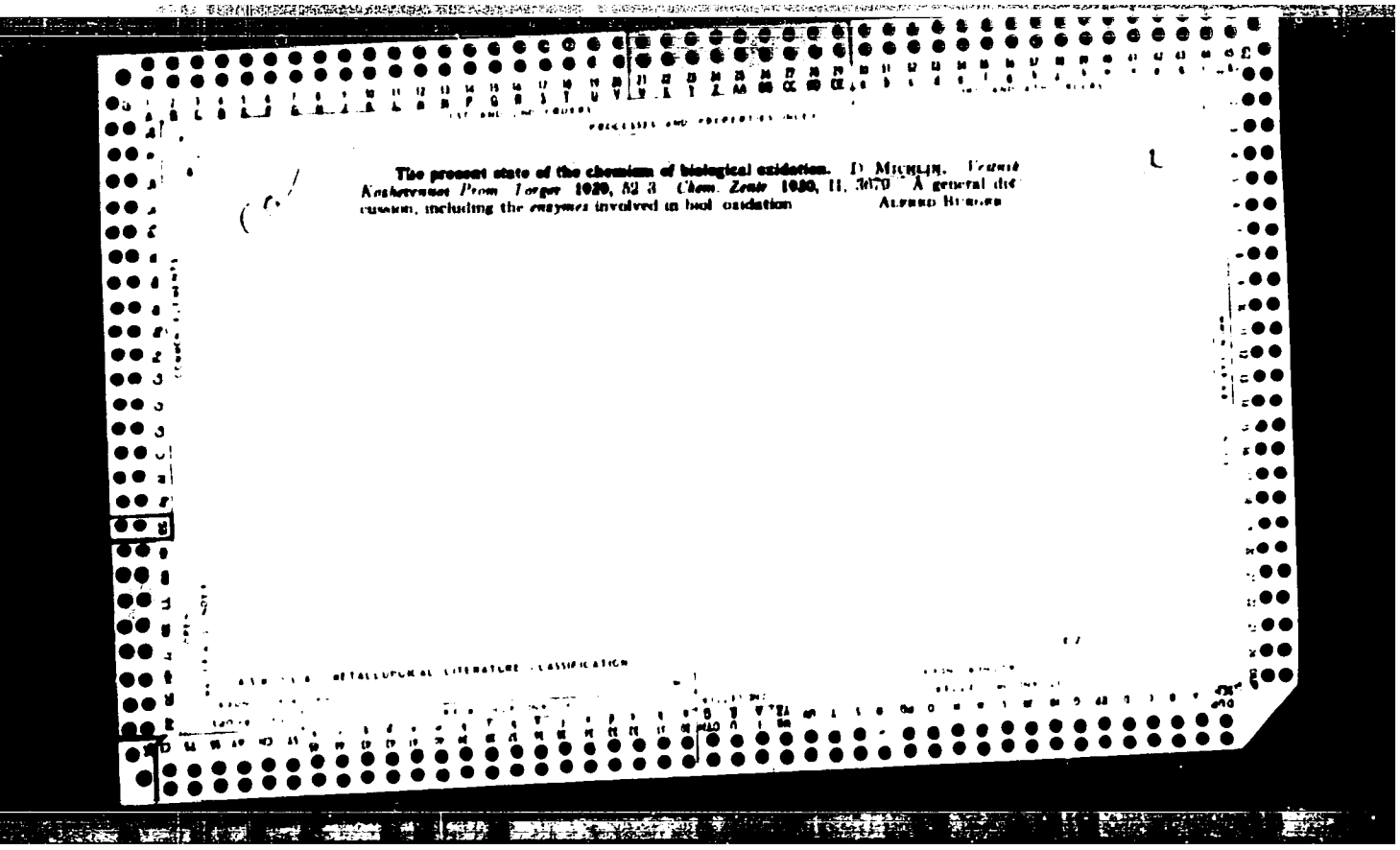

The present state of the chemism of biological oxidation. D. Michlin. *Uspekhi Khimii* [*Progress in Chemistry*] 1939, 8, 3. *Chem. Zentr.* 1940, II, 3070. A general discussion, including the enzymes involved in bodi oxidation. Alfred Bruce

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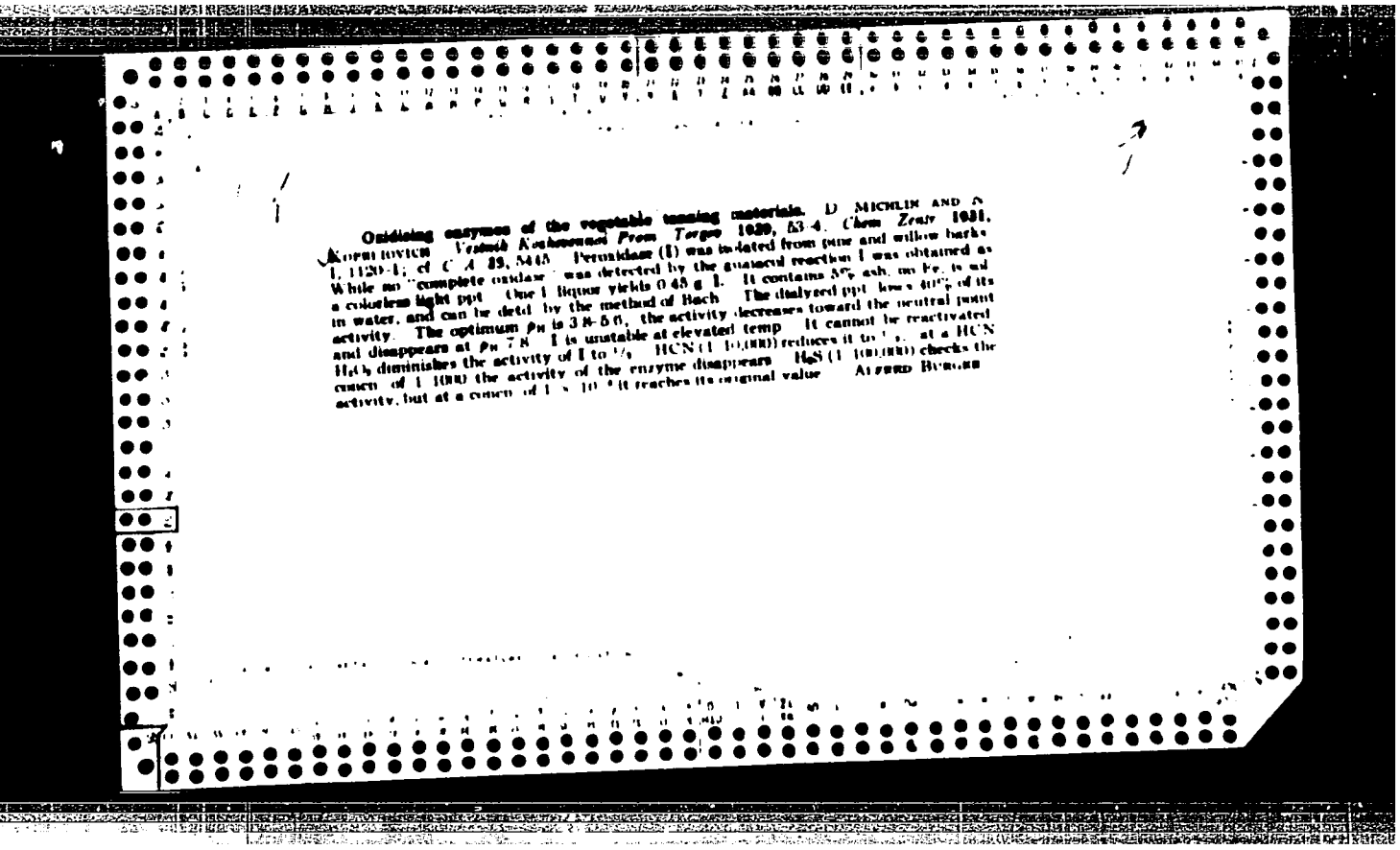

Oxidizing enzymes of the vegetable tanning materials. D. MICHLIN AND A. KOSTYUCHENKO. *Vestnik Kozhevennoi Prom. Torgov.* 1930, 53-4. *Chem. Zentr.* 1931, I, 1120-1; cf. *C. A.* 23, 5465. Peroxidase (I) was isolated from pine and willow barks. While an "complete oxidase" was detected by the guaiacol reaction I was obtained as a colorless light ppt. One l. liquor yields 0.45 g. I. It contains 5% ash, is sol. in water, and can be detd. by the method of Bach. The dialyzed ppt. loses 40% of its activity. The optimum p_H is 3.8-5.6, the activity decreases toward the neutral point and disappears at p_H 7.8. I is unstable at elevated temp. It cannot be reactivated. H_2S diminishes the activity of I to 1/2. HCN (1 10,000) reduces it to 1/2 at a HCN concn. of 1 1000; the activity of the enzyme disappears. H_2S (1 100,000) checks the activity, but at a concn. of 1 × 10⁻⁶ it reaches its original value. ALFRED BURGER

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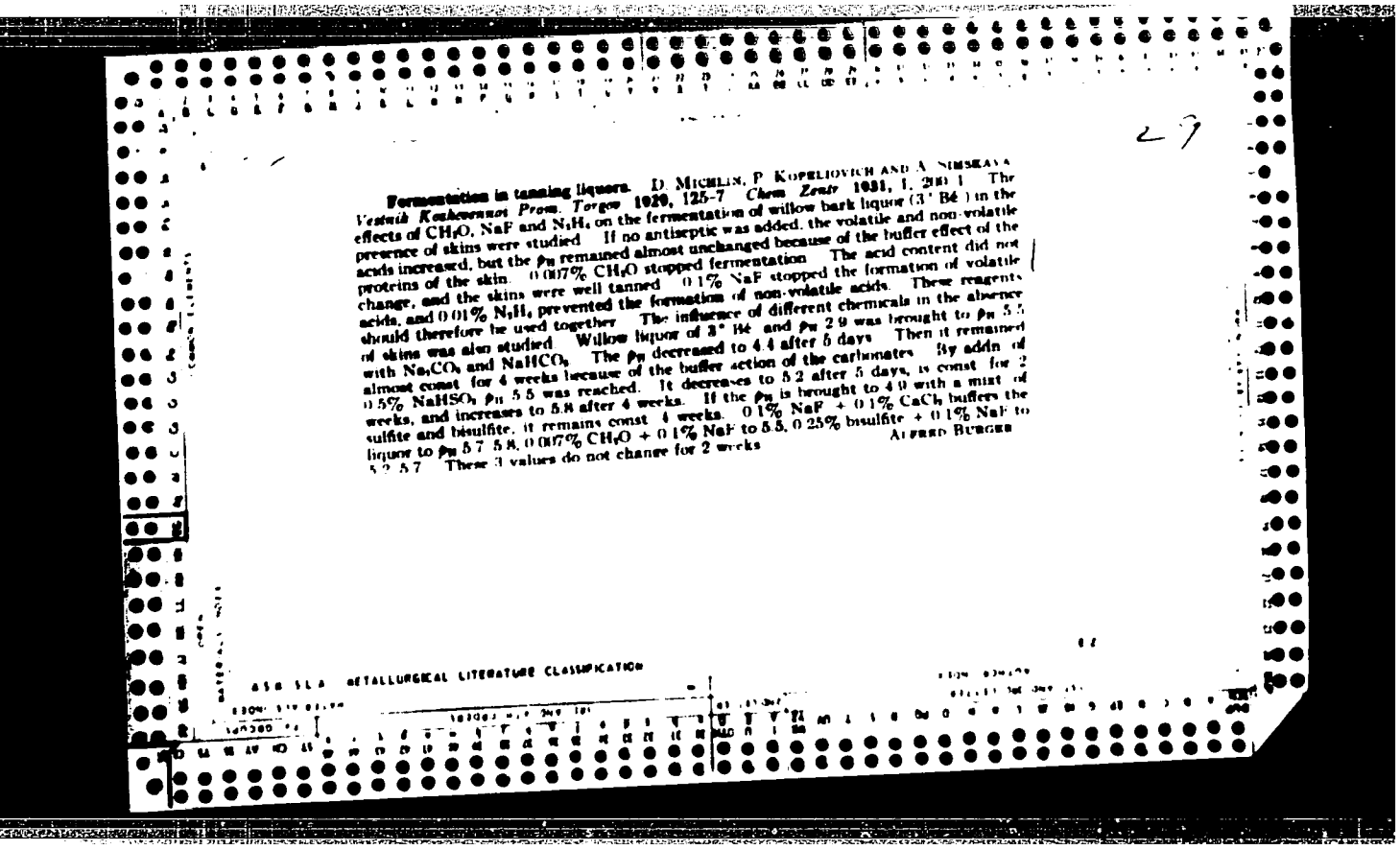

Fermentation in tanning liquors. D. MICHLIN, P. KOPELIOVICH AND A. SIMKAYA *Vestnik Kozheonnoi Prom. Torgov* **1929**, 125-7 *Chem. Zentr.* **1931**, I, 280 I. The effects of CH_2O, NaF and N_2H_4 on the fermentation of willow bark liquor (3° Bé.) in the presence of skins were studied. If no antiseptic was added, the volatile and non-volatile acids increased, but the p_H remained almost unchanged because of the buffer effect of the proteins of the skin. 0.017% CH_2O stopped fermentation. The acid content did not change, and the skins were well tanned. 0.1% NaF stopped the formation of volatile acids, and 0.01% N_2H_4 prevented the formation of non-volatile acids. These reagents should therefore be used together. The influence of different chemicals in the absence of skins was also studied. Willow liquor of 3° Bé. and p_H 2.9 was brought to p_H 5.5 with Na_2CO_3 and $NaHCO_3$. The p_H decreased to 4.4 after 5 days. Then it remained almost const. for 4 weeks because of the buffer action of the carbonates. By addn. of 0.5% $NaHSO_3$ p_H 5.5 was reached. It decreases to 5.2 after 5 days, is const. for 2 weeks, and increases to 5.8 after 4 weeks. If the p_H is brought to 4.0 with a mixt. of sulfite and bisulfite, it remains const. 4 weeks. 0.1% NaF + 0.1% $CaCl_2$ buffers the liquor to p_H 5.7-5.8, 0.017% CH_2O + 0.1% NaF to 5.5, 0.25% bisulfite + 0.1% NaF to 5.2-5.7. These 3 values do not change for 2 weeks.

Alfred Brukes

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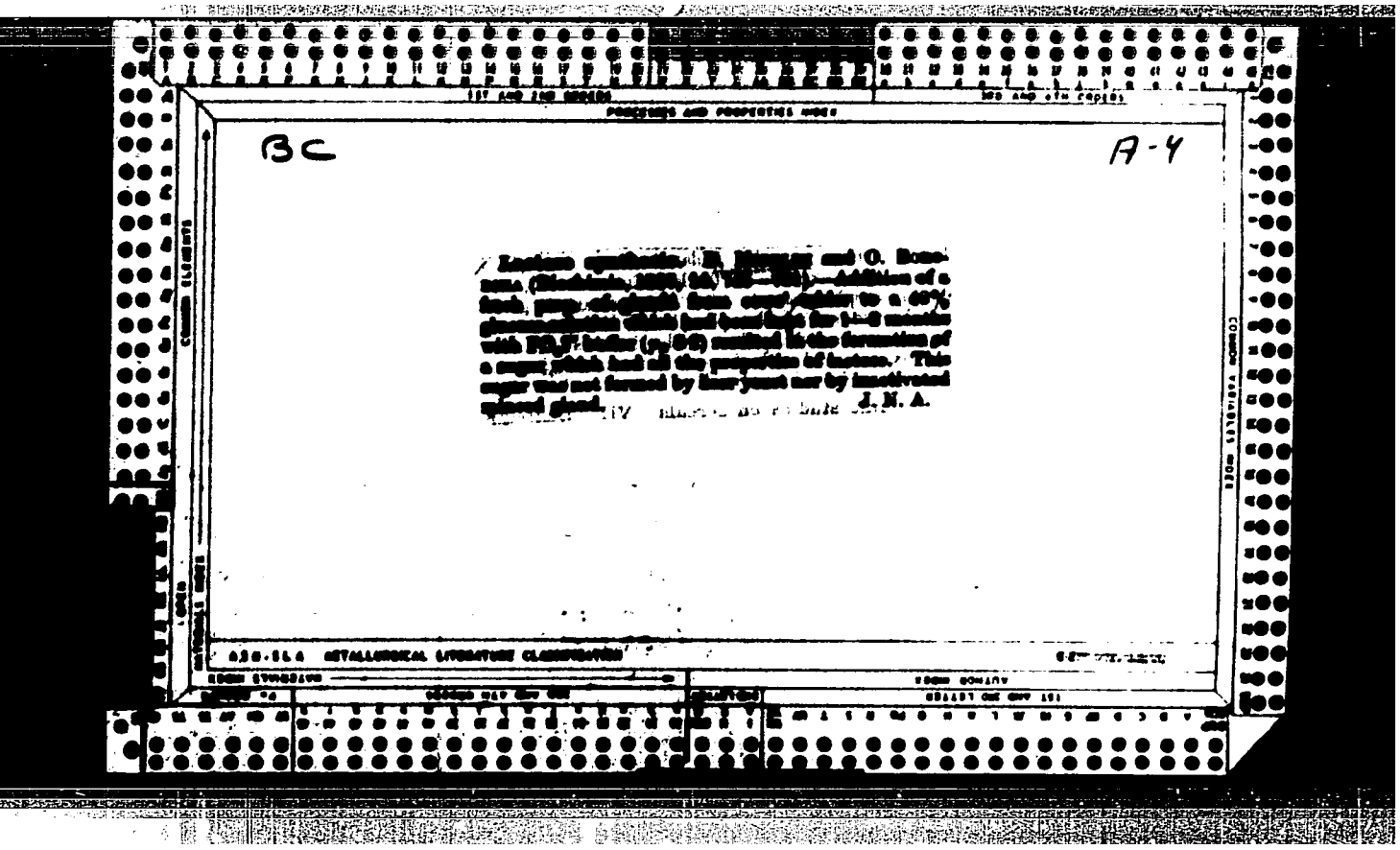

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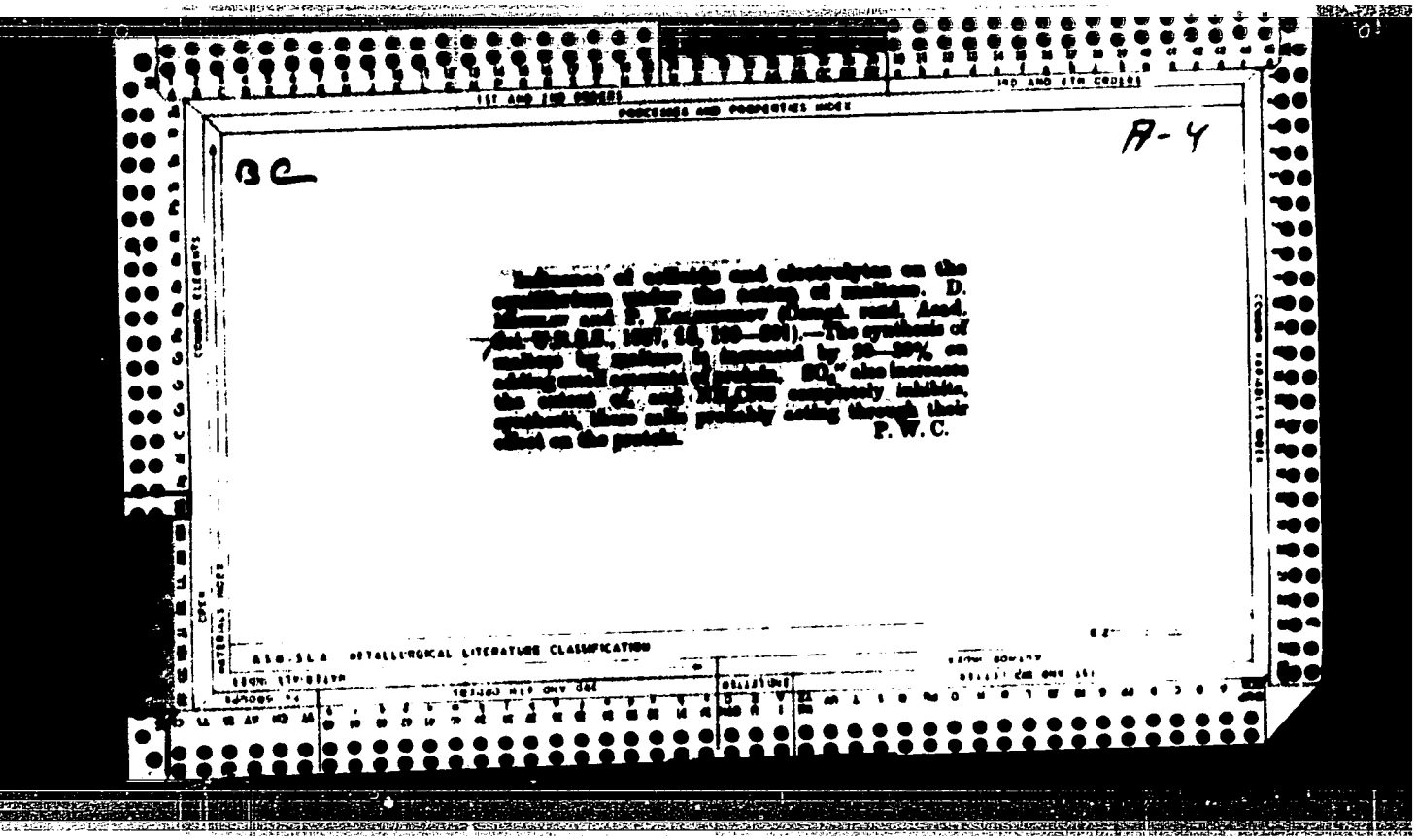

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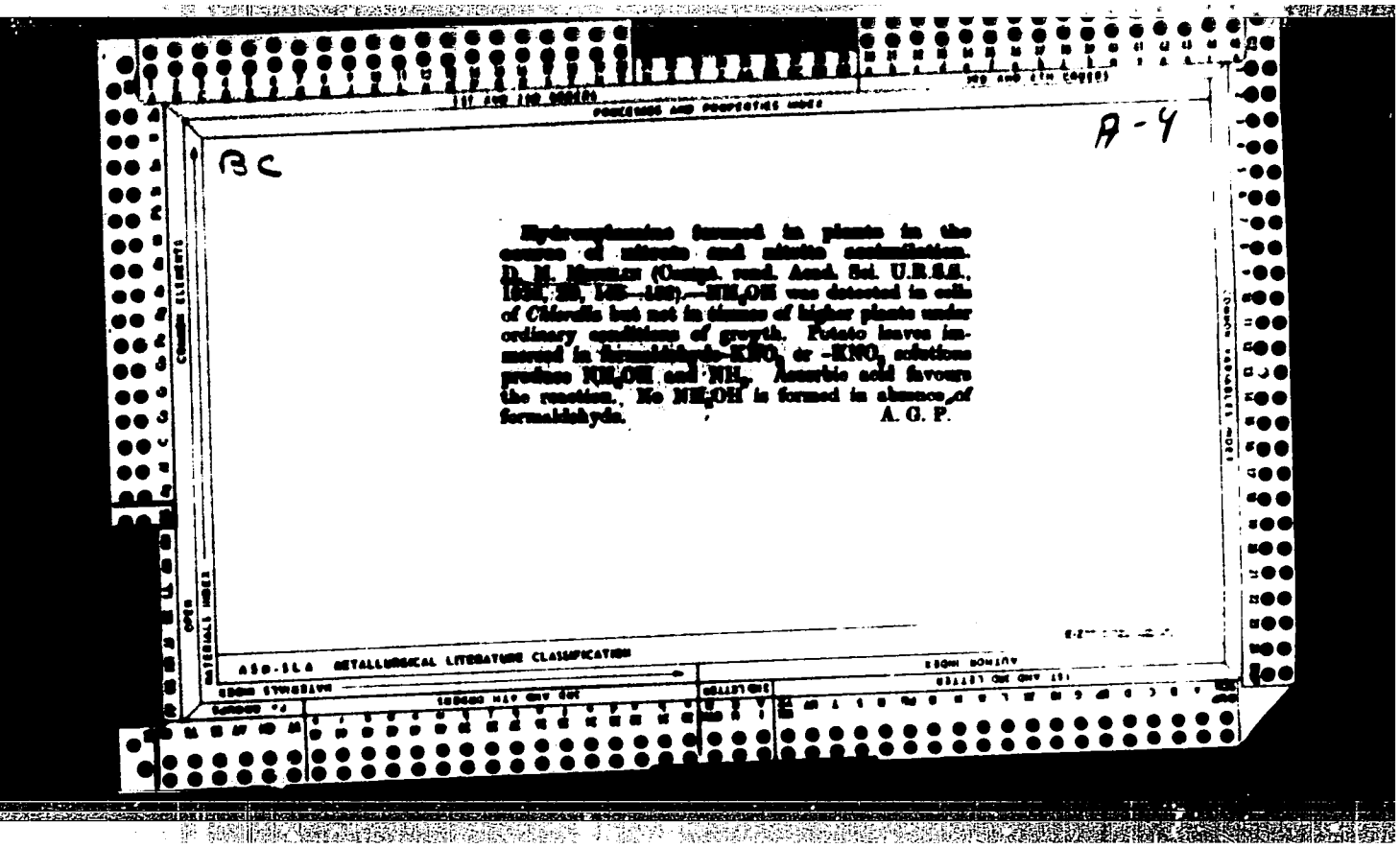

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BC

Hydroxylamine formed in plants in the course of nitrate and nitrite assimilation. D. M. Shmuk (Compt. rend. Acad. Sci. U.R.S.S., [1937], 16, 135–138).—NH_2OH was detected in cells of *Chlorella* but not in tissues of higher plants under ordinary conditions of growth. Potato leaves immersed in formaldehyde-KNO_3 or -KNO_2 solutions produce NH_2OH and NH_3. Ascorbic acid favours the reaction. No NH_2OH is formed in absence of formaldehyde. A. G. P.

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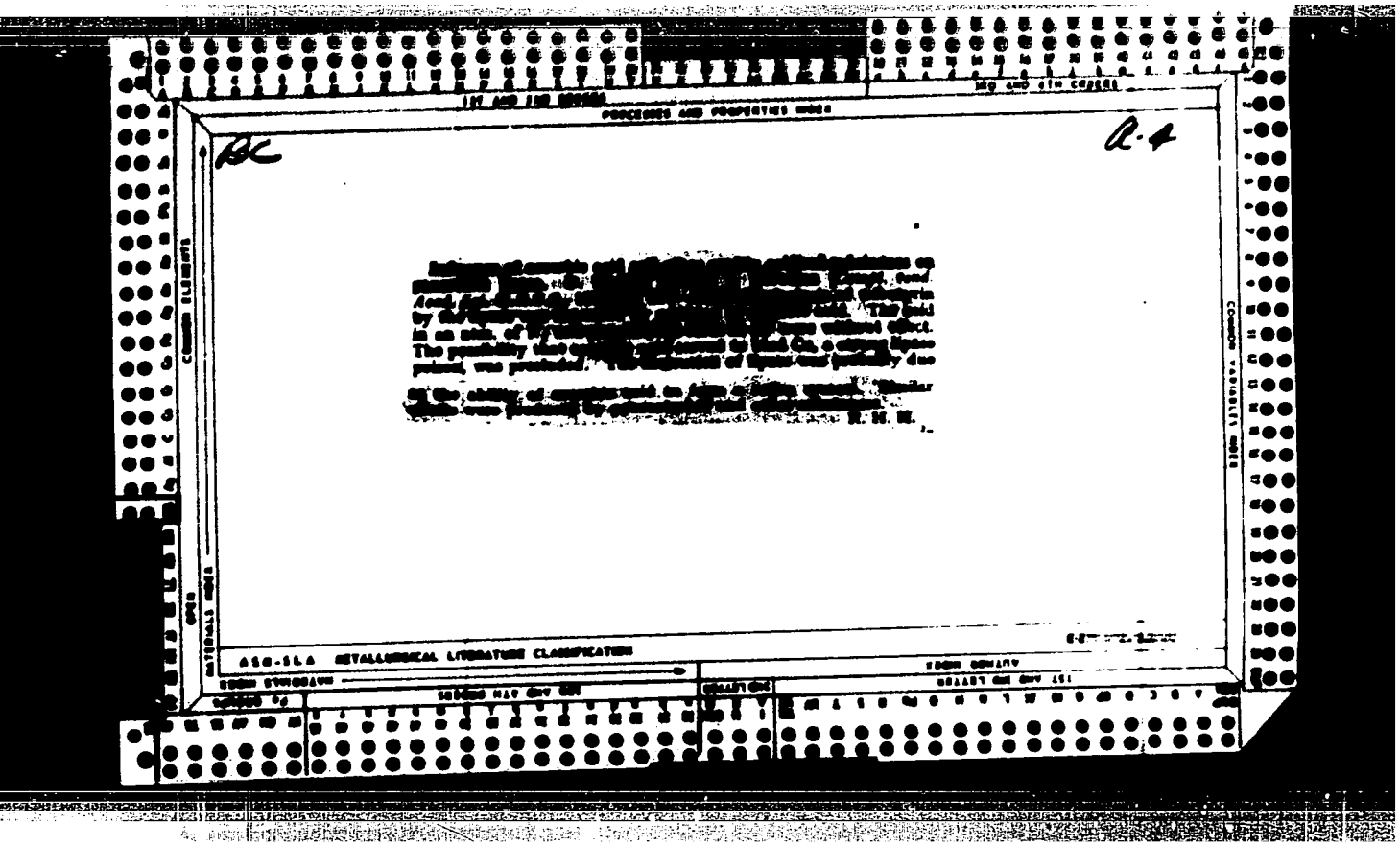

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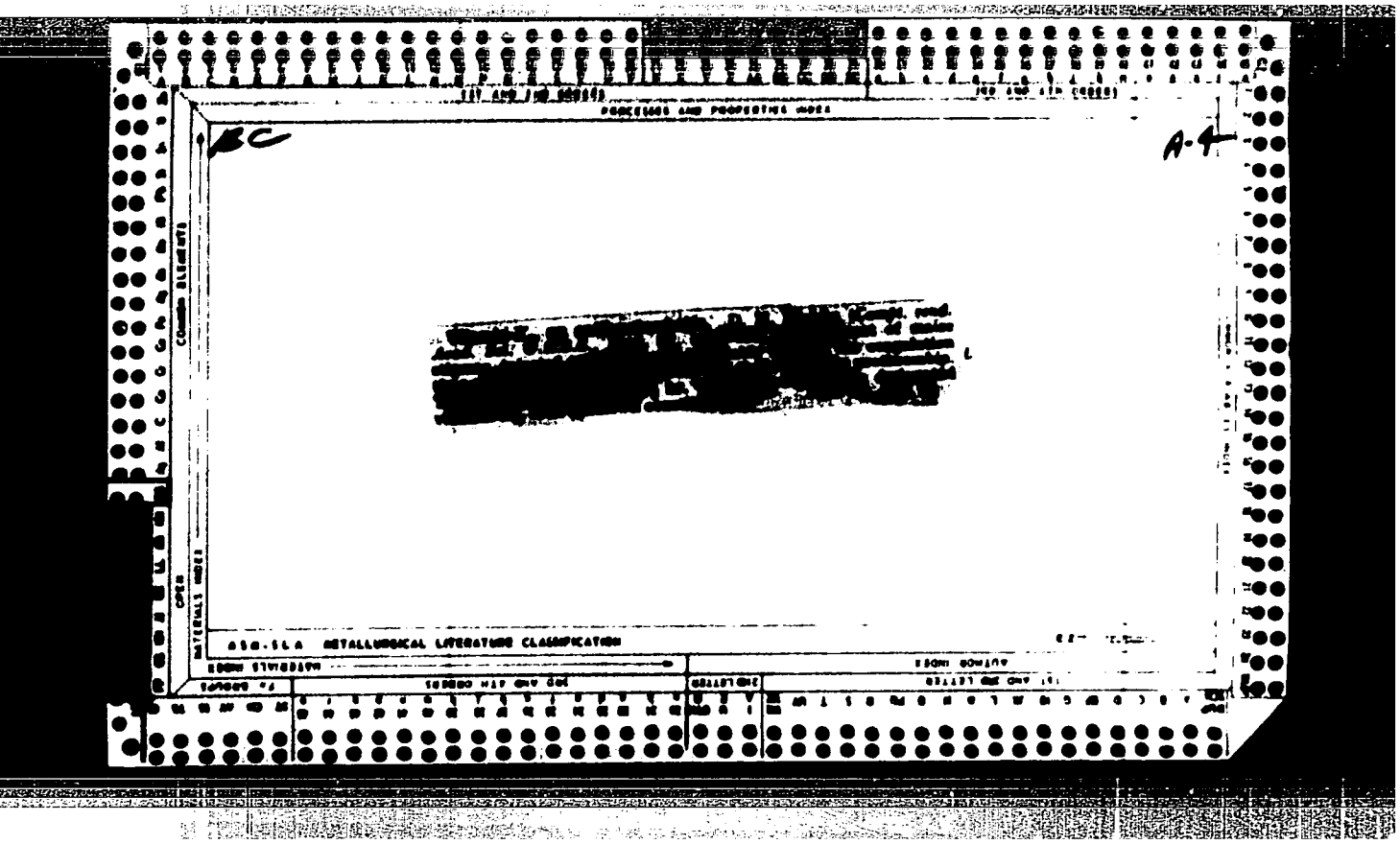

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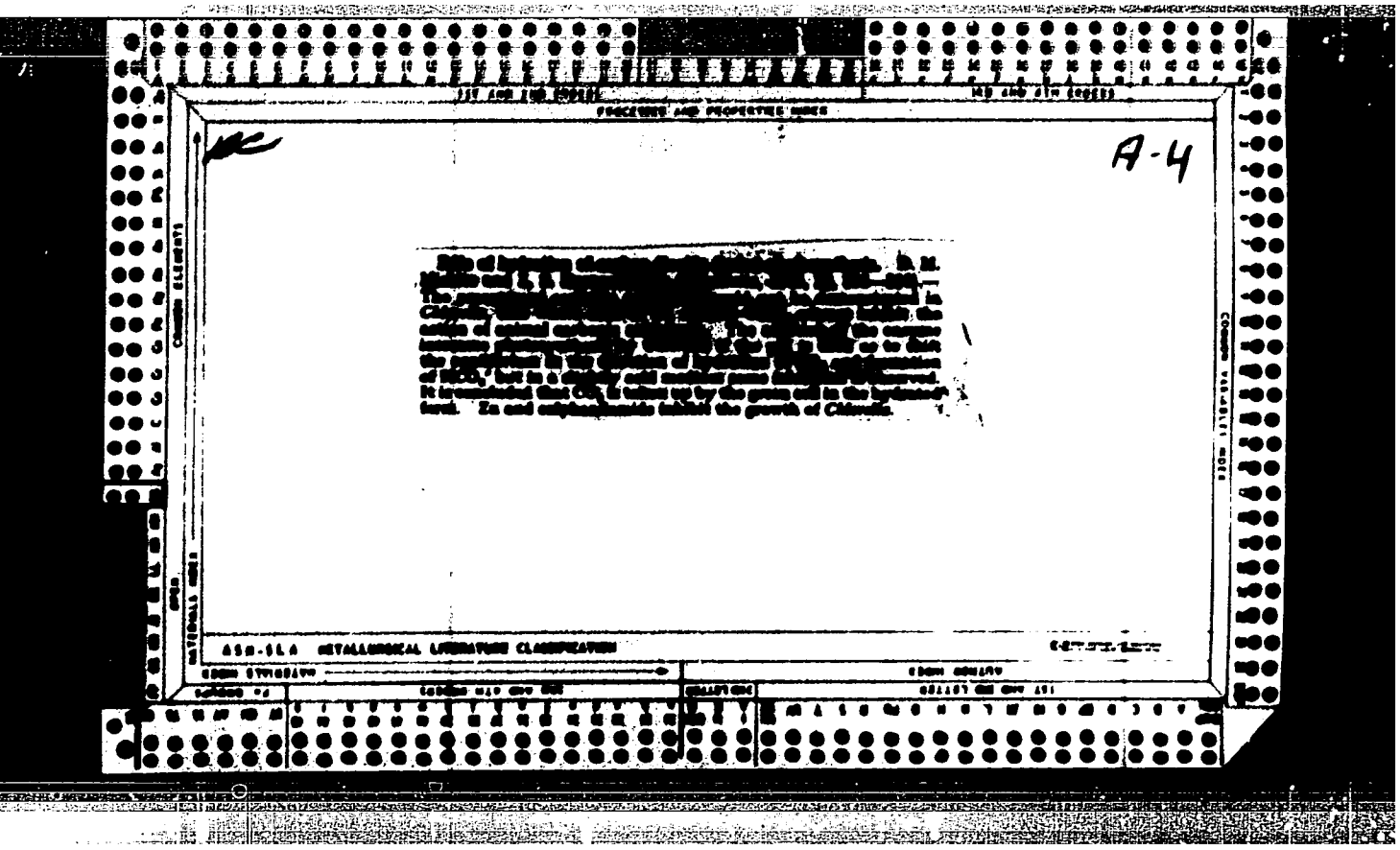

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